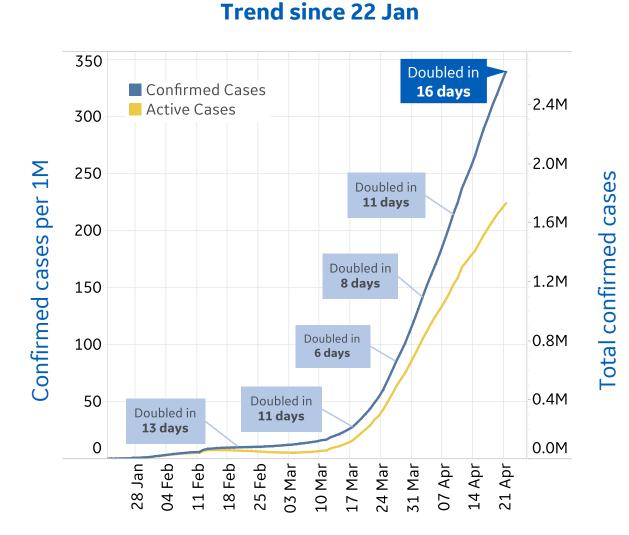
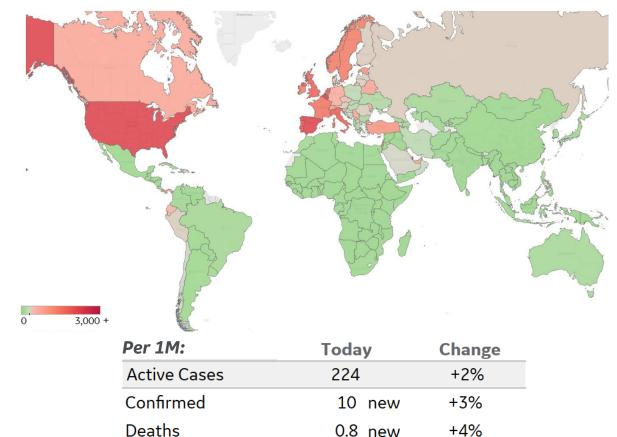
Global Confirmed & Active Cases





Today per 1M Active cases = Confirmed – Recovered – Deaths



4 new



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Recovered

+4%

Global Summary



22 Jan

Volume		Today		Total since 22 Jan		Per 1M		Today		Total since				
	Active Cases	Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths	Total Recovered		Active Cases	Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths
US	715,726	27,639	2,139	2,162	839,675	46,583	77,366	Belgium	2,260	81	23	37	3,614	540
UK	115,804	4,466	773	45	134,638	18,151	683	Qatar	2,236	211	0	26	2,479	3
Italy	107,699	3,370	437	2,943	187,327	25,085	54,543	US	2,162	84	6	7	2,537	141
Spain	100,757	4,211	435	3,401	208,389	21,717	85,915	Spain	2,155	90	9	73	4,457	464
France	94,426	N/A	544	1,507	157,125	21,373	41,326	Portugal	1,967	59	2	22	2,156	77
Turkey	79,821	3,083	117	1,559	98,674	2,376	16,477	Netherlands	1,801	42	8	2	2,044	237
Germany	45,969	2,357	246	4,200	150,648	5,279	99,400	Italy	1,781	56	7	49	3,098	415
Netherlands	30,863	715	139	27	35,032	4,068	101	UK	1,706	66	11	1	1,983	267
Belgium	26,194	933	264	431	41,889	6,262	9,433	Singapore	1,578	174	0	10	1,733	2
Canada	25,119	2,247	167	1,266	41,648	2,075	14,454	France	1,447	N/A	8	23	2,407	327
Portugal	20,054	603	23	226	21,982	785	1,143	Ireland	1,351	128	8	0	3,376	156
Iran	17,492	1,194	94	2,148	85,996	5,391	63,113	Sweden	1,338	68	17	0	1,585	192
Sweden	13,517	682	172	0	16,004	1,937	550	Norwaÿ	1,313	27	1	0	1,354	34
Japan	9,875	377	18	117	11,512	281	1,356	Israel	1,051	64	1	82	1,675	22
Singapore	9,233	1,016	1	57	10,141	12	896	Turkey	946	37	1	18	1,170	28
Israel	9,094	556	5	708	14,498	189	5,215	Canada	666	60	4	34	1,103	55
Norway	7,119	147	5	0	7,338	187	32	Germany	549	28	3	50	1,798	63
Ireland	6,669	631	39	0	16,671	769	9,233	Iran	208	14	1	26	1,024	64
Qatar	6,442	608	1	75	7,141	10	689	Japan	78	3	0	1	91	2
South Korea	2,179	11	1	64	10,694	238	8,277	South Korea	43	0	0	1	209	5
China	1,371	15	0	62	83,868	4,636	77,861	China	1	0	0	0	58	3
Total World	1,730,694	74,120	6,443	29,875	2,623,413	183,025	709,694	Total World	224	10	1	4	339	24

Worldwide, there are over 2.5M (2,623,413) confirmed cases

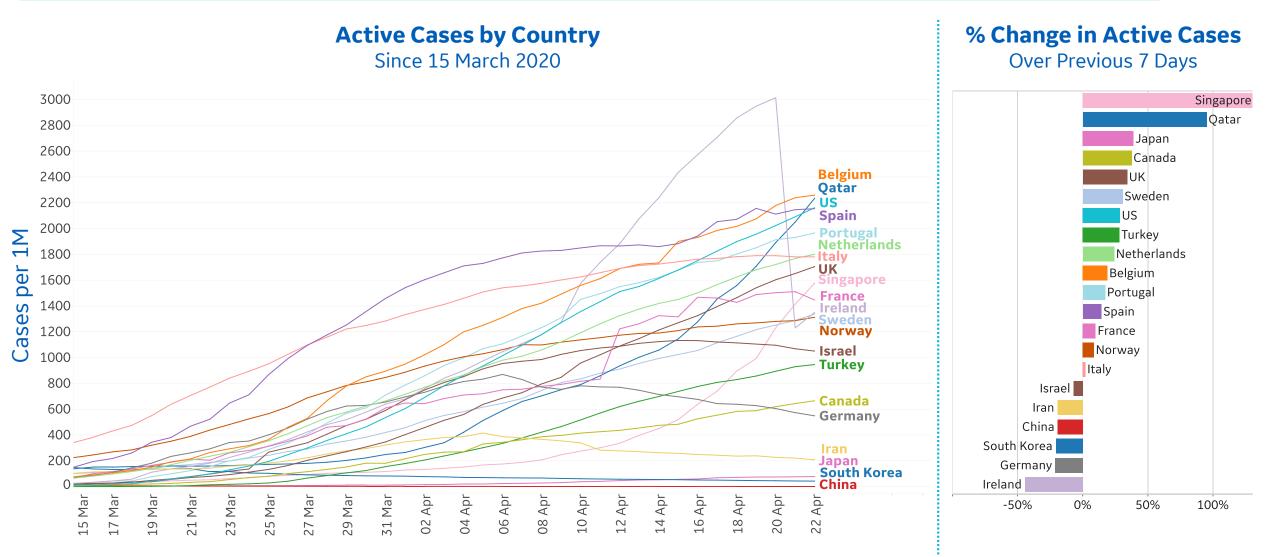
Confirmed cases in the **US** doubled in the last two weeks



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Trends in Active Cases

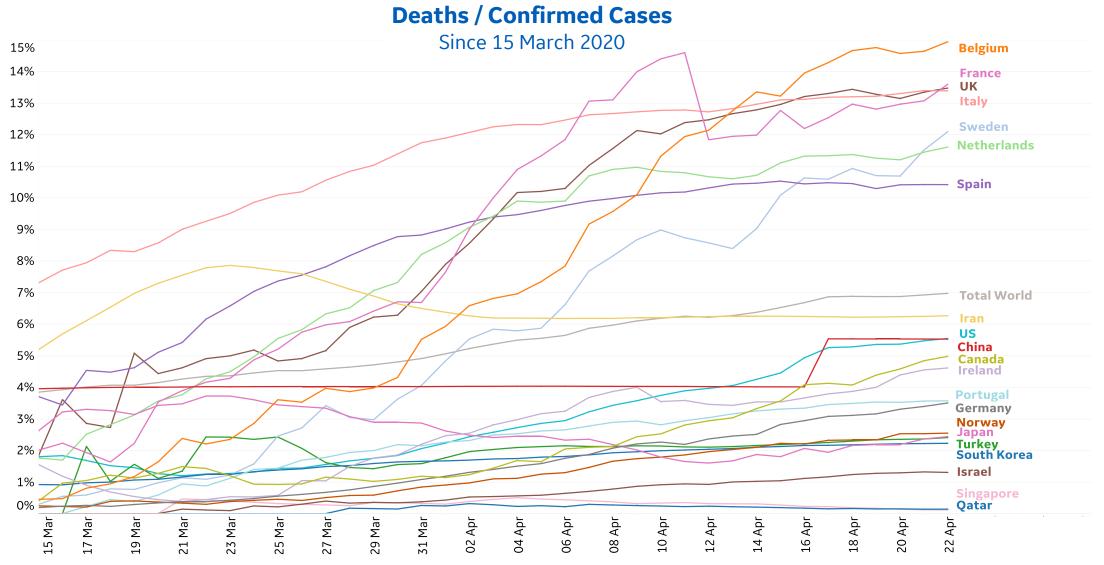






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Fatality Rate over time by Country



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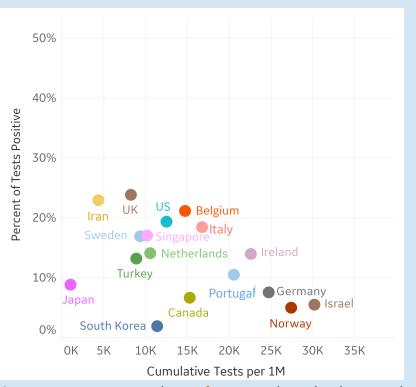
GE HEALTHCARE COMMAND CENTERS

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Feature: International Testing + Confirmed Cases



Testing Practices in Select Countries



Germany, **Norway**, and **Israel** seem to have implemented broad testing of their populations while maintaining a low positive rate.

WHO Health Emergencies Program suggests that **high proportions of positive tests can indicate lack of extensive testing programs**. Extensive testing typically results in 12% or fewer positive tests.

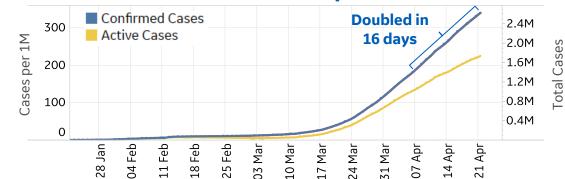
Recent Rate of Testing # Daily Tests per 1M Population (Last 7 day avg.)

Country	Tests/1M
Italy	935
Portugal	809
Ireland	606
Germany	587
Belgium	560
Singapore	540
US	458
Turkey	457
Norway	440
Canada	436
UK	384
Israel	344
Netherlands	323
Sweden	281
Iran	133
South Korea	121
Japan	40

Recent Doubling Times: Confirmed Cases



Global Trends per 1M





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Feature: US Testing + Confirmed Case Doubling Times



Midwest 50% Northeast N.J. Southeast Southwest 40% West Percent of Tests Positive NY 30% CT GA MA 20% DC LA RI 10% 0% 0K 5K 25K 30K 35K 10K 20K Cumulative Tests Per 1M

23 states reported between 5,000 - 15,000 tests per 1M population, with a positive rate of 5 - 15%.

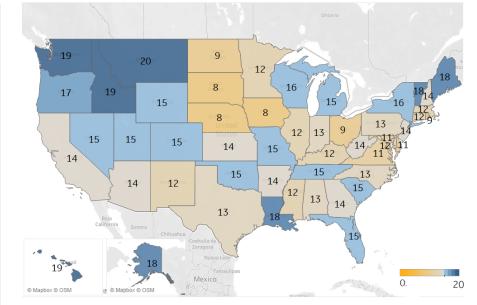
WHO Health Emergencies Program suggests that **high proportions of positive tests can indicate lack of extensive testing programs**. Extensive testing typically results in 12% or fewer positive tests.

	Recent Rate of Testing						
Daily Test Results per 1M Population (Last 7 day avg.)							
State	Results/1M	State	Results/1M				
RI	2,216	MI	443				
UT	1,153	WY	409				
NY	1,103	IA	395				
MA	1,012	PA	371				
WA	883	NE	370				
ND	763	GA	354				
LA	738	CA	354				
СТ	735	OH	322				
NJ	725	AR	299				
MS	695	OR	297				
DC	692	NV	297				
DE	638	TX	290				
TN	614	NH	287				
OK	580	ME	279				
VT	578	MT	268				
SD	568	WI	268				
AK	541	VA	261				
HI	532	NC	249				
 IL		KS	243				
	500	AZ	217				
FL MD	491	CO	216				
MD	470	MN	214				
NM	462	MO	213				
WV	456	SC	205				
IN	451	ID	204				
AL	449	KY	196				

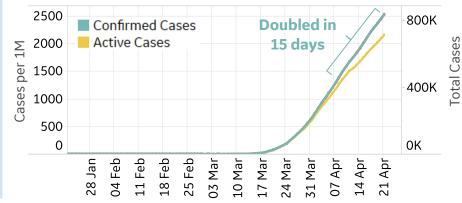
State Testing Practices

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Recent Doubling Times: Confirmed Cases



US Trends per 1M



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Europe & Middle East

Per 1M in Region

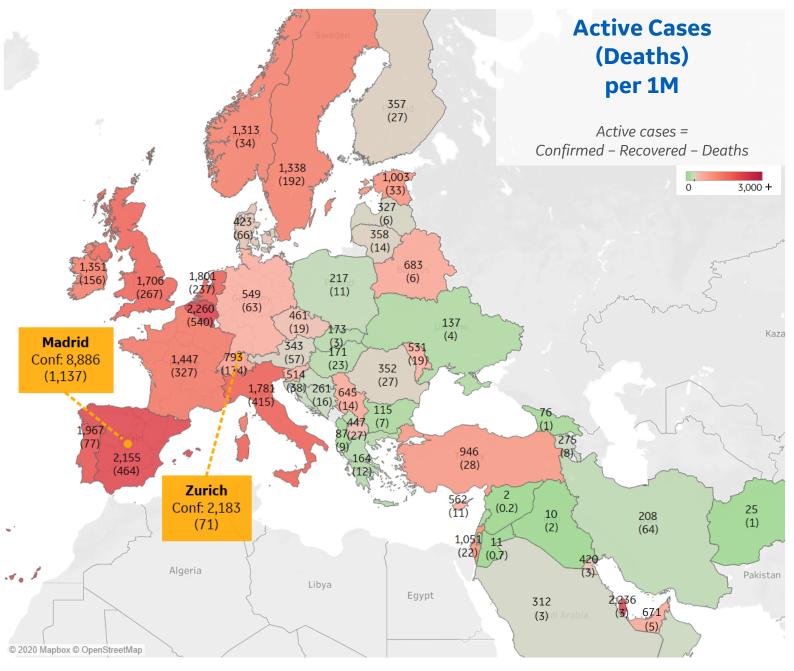
	Today	Change	
Active Cases	807	+0%	
Confirmed	28 new	+2%	
Deaths	4 new	+3%	
Recovered	21 new	+5%	

Most Active Cases per 1M

Belgium	2,260
Qatar	2,236
Spain	2,155
Portugal	1,967
Netherlands	1,801
Italy	1,781
UK	1,706
France	1,447
Ireland	1,351
Sweden	1,338

* Excludes regions with population < 1M

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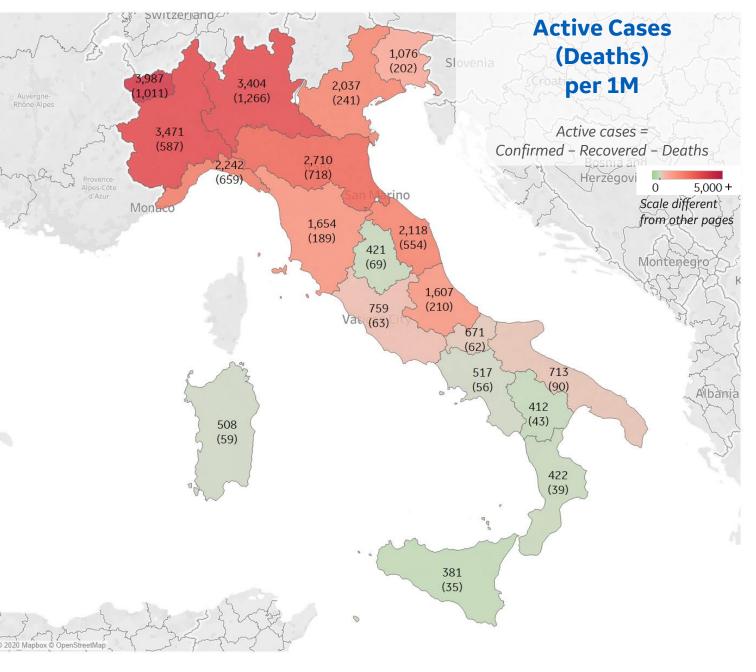
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Italy

Per 1	M in Region	
	Today	Change
Active Cases	1,781	+0.0%
Confirmed	56 new	+3%
Deaths	7 new	+4%
Recovered	49 new	+4%

Most Active Cases per 1M

Valle d'Aosta	3,987
Piemonte	3,471
Lombardia	3,404
Emilia-Romagna	2,710
Liguria	2,242
Marche	2,118
Veneto	2,037
Trentino-Alto Adi	1,748
Toscana	1,654
Abruzzo	1,607



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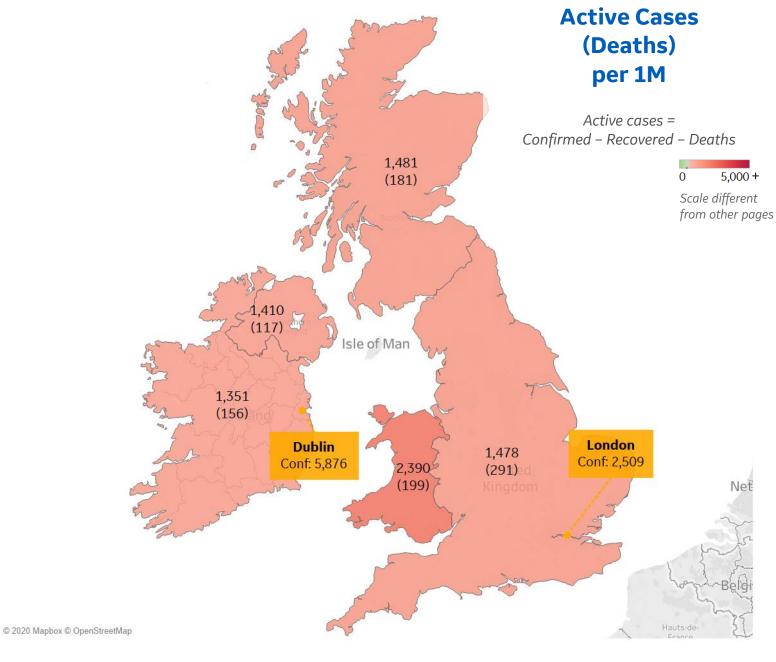
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UK & Ireland

Per 1M	1 in Region	
	Today	Change
Active Cases	1,682	+4%
Confirmed	70 new	+3%
Deaths	11 new	+4%
Recovered	0.6 new	+0.5%

Most Active Cases per 1M

2,390
1,481
1,478
1,410
1,351





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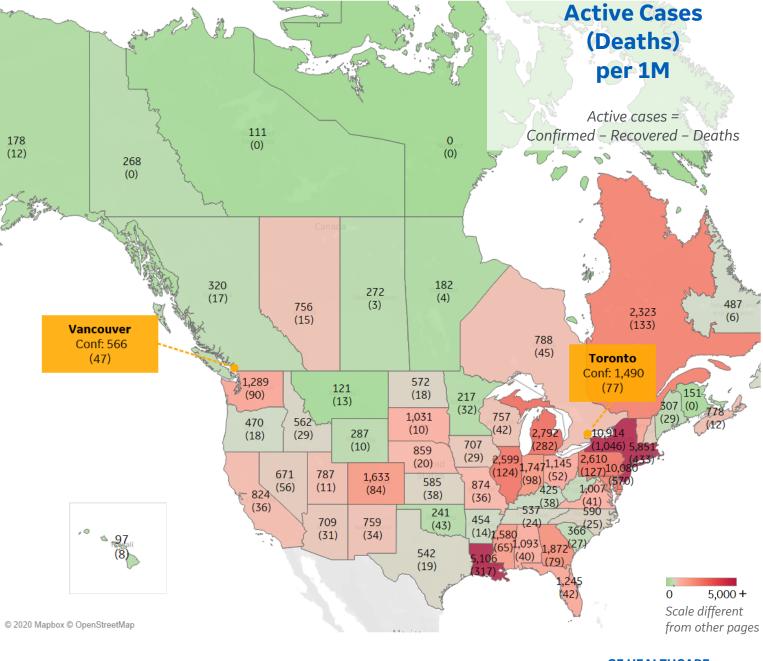
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US & Canada

Per 1N	1 in Region	
	Today	Change
Active Cases	2,009	+3%
Confirmed	81 new	+4%
Deaths	6 new	+5%
Recovered	9 new	+4%

Most Active Cases per 1M

New York	10,914
New Jersey	10,080
Connecticut	5,851
Louisiana	5,106
Rhode Island	5,066
Massachusetts	4,736
DC	3,449
Michigan	2,792
Pennsylvania	2,610
Illinois	2,599





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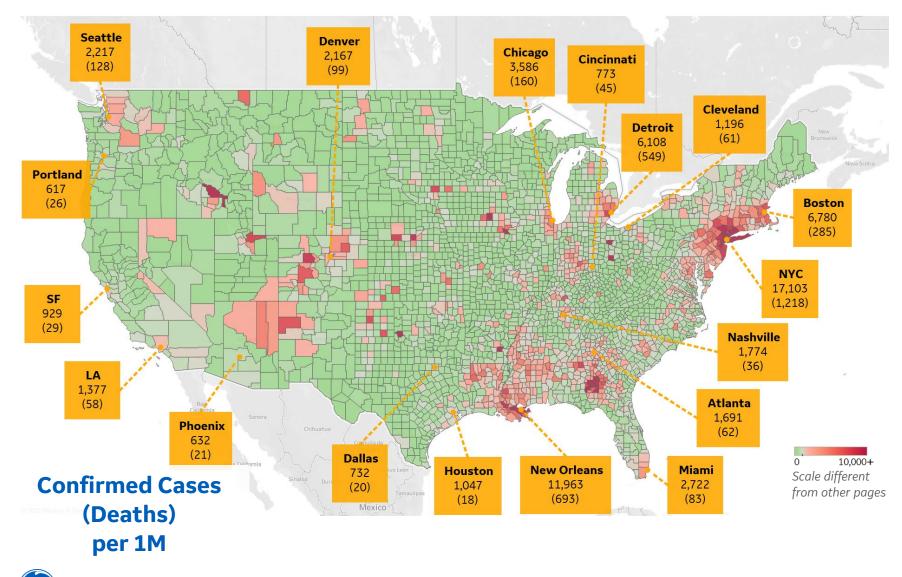
178

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GE HEALTHCARE 10 **COMMAND CENTERS**

US by County & Metro Area

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Top 10 Northeast Counties Confirmed Cases per 1M

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Rockland County, NY	29,771
Westchester County, NY	26,125
Nassau County, NY	23,255
Suffolk County, NY	19,541
Union County, NJ	18,845
Passaic County, NJ	18,716
Orange County, NY	18,580
Hudson County, NJ	17,978
New York City*	17,668
Bergen County, NJ	14,681

Top 10 Other US Counties Confirmed Cases per 1M

Orleans Parish, LA	15,915
Jefferson Parish, LA	13,549
Wayne County, MI	8,324
Macomb County, MI	5,295
Oakland County, MI	5,139
Cook County, IL	4,766
District of Columbia, DC	4,543
Marion County, IN	4,420
Prince George's County, MD	4,261
St. Tammany Parish, LA	4,143

Note: Includes counties ≥ 250K population * New York City counties aggregated into one reporting area

> GE HEALTHCARE COMMAND CENTERS 11

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Oceania

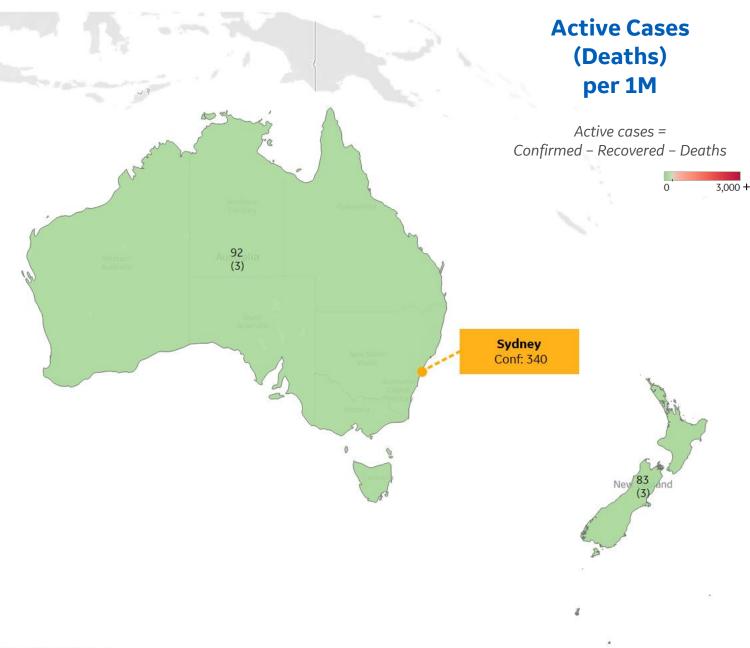
Per 1M in Region

	Today	Change
Active Cases	89	-1%
Confirmed	0.2 new	+0.1%
Deaths	0.03 new	+1%
Recovered	1 new	+1%

Most Active Cases per 1M

Australia	92
New Zealand	83

* Excludes regions with population < 1M





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Latin & South America

Per 1M in Region

	Today	Change
Active Cases	105	+5%
Confirmed	1 0 new	+6%
Deaths	0.7 new	+8%
Recovered	5 new	+8%

Most Active Cases per 1M

Panama	1,031
Ecuador	513
Dominican Repub	411
Peru	355
Chile	301
Costa Rica	97
Brazil	82
Cuba	71
Jamaica	68
Colombia	64

* Excludes regions with population < 1M

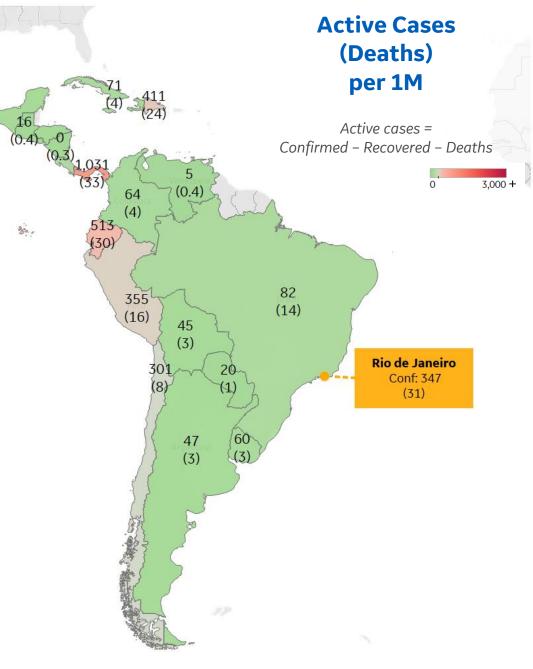




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Asia

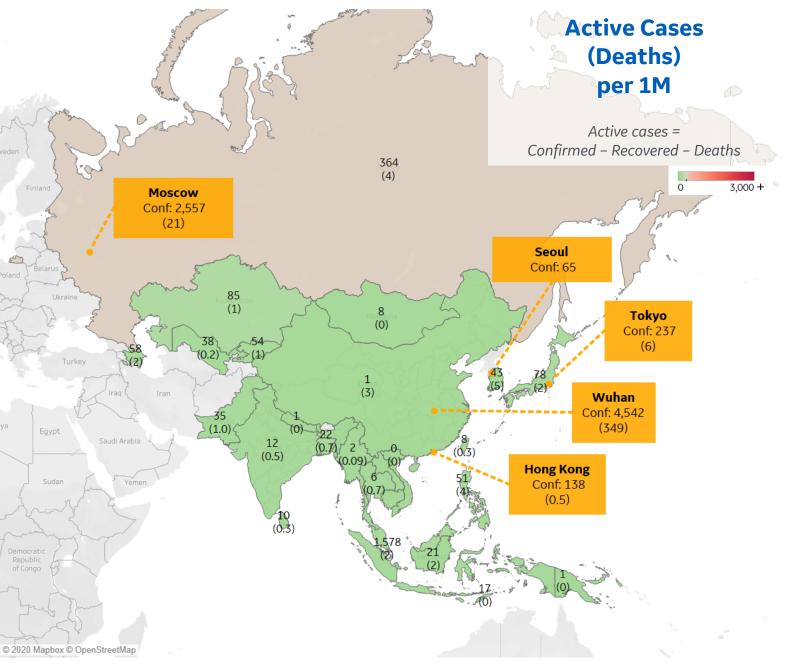
	Per 1M in Region		
	Today	Change	
Active Cases	28	+6%	
Confirmed	2 new	+4%	
Deaths	0.04 new	+2%	
Recovered	0.5 new	+2%	

Most Active Cases per 1M

Singapore	1,578
Russia	364
Kazakhstan	85
Japan	78
Malaysia	61
Azerbaijan	58
Kyrgyzstan	54
Philippines	51
South Korea	43
Uzbekistan	38

* Excludes regions with population < 1M

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Africa

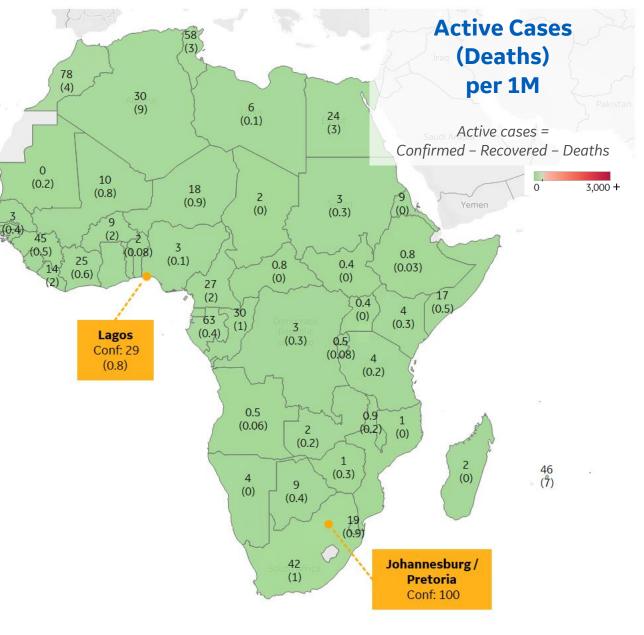
Per 1M in Region		
	Today	Change
Active Cases	13	+5%
Confirmed	1 new	+6%
Deaths	0.04 new	+4%
Recovered	0.4 new	+9%

Most Active Cases per 1M

Morocco	78
Gabon	63
Tunisia	58
Equatorial Guinea	54
Mauritius	46
Guinea	45
South Africa	42
Ghana	34
Algeria	30
Congo (Brazzavil	30

* Excludes regions with population < 1M

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Catching Up on Surgeries, Imaging, Procedures

Every hospital has a backlog of elective surgeries, imaging, and procedures to resolve. We have deep experience in these areas.

We understand the urgency and can engage immediately to **help size** and stratify the backlog, and develop options to catch up.



Scenario Planning Process Using Constraint-Based Modeling

1 Collect Data

GE requests de-identified data & provides secure transfer mechanism

- Procedural Areas: OR, Cath/EP, GI, Imaging (IR, MRI, CT, Mammography, Other)
- □ Inpatient: ADT, Bed Master
- Block Schedule
- □ Identified Backlog of Cases
- Elective Schedule: Date suspended / Anticipated start

2 Qualitative & Quantitative Analysis

Week 1:

- Data analysis to determine maximum efficiency of schedule and downstream effects on recovery & inpatient beds.
- Determine appropriate units to target care for COVID-19 patients.
- Phone interviews with key stakeholders.

Week 2:

- Review Initial Outcomes
- Triage with key stakeholders (What if we did this? Or that?)
- Refine Schedule + Finalize

Deliverable

Two weeks from data receipt

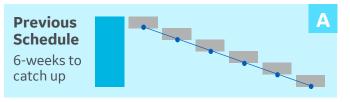
Quantitative Assessment General Recommendations

Ramp-up Scenarios with estimated time impact on IP bed capacity

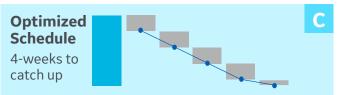
- A. Return to Previous Schedule
- B. Extended OR / Procedural Hours
- C. Optimized Schedule

General recommendations to get "back to normal" such as Risk Stratification, Bed Plan Adjustments, etc.

Ramp-Up Scenarios







<u>http://USCAN.gehealthcarepartners.com</u>

Sources

Johns Hopkins Coronavirus Resource Center: https://coronavirus.jhu.edu/map.html

WHO Situation Reports: https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports

Worldometer Coronavirus Reporting: https://www.worldometers.info/coronavirus/

Public Health England: https://www.gov.uk/government/publications/covid-19-track-coronavirus-cases

US Department of Homeland Security, Homeland Infrastructure Foundation-Level Data: <u>https://hifld-geoplatform.opendata.arcgis.com/datasets/hospitals</u>

City of New York, NYC Health: https://www1.nyc.gov/site/doh/covid/covid-19-data.page

Chicago Coronavirus Latest Data: https://www.chicago.gov/city/en/sites/covid-19/home/latest-data.html

National Health Commission of the PRC: http://www.nhc.gov.cn/xcs/yqtb/202003/bf66696029ba420098164607240074f8.shtml

Korean Centers for Disease Control and Prevention: http://www.cdc.go.kr/cdc_eng/

CDC, Severe Outcomes Among Patients with Coronavirus Disease 2019 (COVID-19): https://www.cdc.gov/mmwr/volumes/69/wr/mm6912e2.htm

Netherlands National Institute for Public Health and Environment: https://www.rivm.nl/

County of Los Angeles Public Health: http://publichealth.lacounty.gov/media/Coronavirus/

COVID-19 Information for Switzerland: https://www.corona-data.ch/

WHO Europe, Surveillance Report: http://www.euro.who.int/en/health-topics/health-emergencies/coronavirus-covid-19/weekly-surveillance-report

CDC, National Vital Statistics Reports: https://www.cdc.gov/nchs/data/nvsr/nvsr68/nvsr68_06-508.pdf

NHS England: https://www.kingsfund.org.uk/publications/nhs-hospital-bed-numbers The COVID Tracking Project: https://covidtracking.com/data/

New York Times - Coronavirus Data in the United States: https://github.com/nytimes/covid-19-data

Italian Ministry of Health: http://www.salute.gov.it/portale/nuovocoronavirus/dettaglioContenutiNuovoCoronavirus.jsp?lingua=italiano&i d=5351&area=nuovoCoronavirus&menu=vuoto

City of Toronto: https://www.toronto.ca/home/covid-19/media-room/covid-19-status-of-cases-in-toronto/

General Secretariat for Health, Spain: https://www.mscbs.gob.es/profesionales/saludPublica/ccayes/alertasActual/nCov-China/home.htm

US News & World Report, COVID Statistics Revisions: https://www.usnews.com/news/world/articles/2020-04-15/french-coronavirus-death-toll-rises-intensive-carenumbers-down & https://www.usnews.com/news/world-report/articles/2020-04-17/china-revises-wuhandeath-toll-adding-nearly-1-300-more-coronavirus-fatalities

New South Wales Government: https://www.health.nsw.gov.au/Infectious/diseases/Pages/covid-19-latest.aspx

Provincial Health Services Authority of Canada. BC Center for Disease Control: <u>http://www.bccdc.ca/about/news-stories/stories/2020/information-on-novel-coronavirus</u>

Irish Times, Coronavirus Recoveries: https://www.irishtimes.com/news/health/coronavirus-more-than-9-000-people-have-recovered-44-moredeaths-reported-1.4234369

Coronavirus Cases in Japan by Prefecture, Nippon Communications Foundation: https://www.nippon.com/en/japan-data/h00657/coronavirus-cases-in-japan-by-prefecture.html

Government of Ireland: <u>https://www.gov.ie/en/press-release/a8debf-statement-from-the-national-public-health-emergency-team-friday-apri/</u>

WHO Europe, Principles for Transition: http://www.euro.who.int/en/media-centre/sections/statements/2020/statement-transition-to-a-new-normalduring-the-covid-19-pandemic-must-be-guided-by-public-health-principles

NPR, Testing Interpretation: https://www.npr.org/sections/coronavirus-live-updates/2020/03/30/824127807/if-most-of-your-coronavirus-tests-come-back-positive-youre-not-testing-enough

Our World in Data, COVID Testing: https://ourworldindata.org/covid-testing



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